What is claimed is:

1.   A conversion check apparatus which checks an analytic model generated by converting a three-
5 dimensional model for use in an analyzing process, comprising:
        a calculation unit obtaining a difference between the analytic model and the three-dimensional model; and
10   a conversion check display unit displaying the difference.

2.   The apparatus according to claim 1, wherein said calculation unit comprises at least one
15 of a volume calculation facility unit for obtaining a difference in volume between the analytic model and the three-dimensional model, a surface area calculation facility unit for obtaining a difference in surface area between the analytic
20 model and the three-dimensional model, and a barycenter calculation facility unit for obtaining a difference in barycenter position between the analytic model and the three-dimensional model.

25 3.   A conversion checking method for checking an

analytic model generated by converting a three-dimensional model for use in an analyzing process, comprising:

obtaining a difference between the analytic

5 model and the three-dimensional model; and

displaying the difference.

4.   The method according to claim 3, wherein said difference is numerically displayed.

10

5.   The method according to claim 3, wherein said difference is visually displayed.

6.   The method according to claim 3, wherein

15   said difference includes at least one of a difference in volume, a difference in surface area, and a difference in barycenter position.

7.   The method according to claim 3, wherein

20   said three-dimensional model and said analytic model are displayed as overlapping each other.

8.   The method according to claim 7, wherein a portion not completely overlapping between

25 the three-dimensional model and the analytic model

is clearly displayed.

9.   The method according to claim 3, wherein
      said three-dimensional model and said analytic
5   model are displayed together.

10.   The method according to claim 3, wherein
       said analytic model is generated by dividing
the three-dimensional model by assigning a grid
10 pattern to the three-dimensional model, and
determining validity on each rectangle element.

11.   The method according to claim 10, wherein
       it is determined that the rectangle element is
15 valid when the volume of the three-dimensional
model in the grid pattern indicates a rate of a
specific value or higher relative to the volume of
the rectangular area, and invalid when a value
smaller than the specific value is indicated.
20

12.   A computer-readable storage medium storing a
program used to direct a computer for checking an
analytic model generated by converting a three-
dimensional model for use in an analyzing process
25 to perform:

obtaining a difference between the analytic model and the three-dimensional model; and

displaying the difference.